

## **IN THE ABSTRACT OF THE DISCLOSURE**

Please amend the Abstract as follows:

### **COMMUNICATIONS APPARATUS, SYSTEMS, AND METHODS**

#### **Abstract of the Disclosure**

In some embodiments, an apparatus and a system, as well as a method and an article, may include translating a bit stream into a multi-tone communications signal having a substantially simultaneous multi-tone signaling bandwidth of greater than about 20 percent of an associated carrier frequency. In some embodiments, an apparatus and a system, as well as a method and an article, may include determining a presence of a plurality of tones included in a multi-tone communications signal by comparing a combined amount of two measured orthogonal signal components to a threshold value.